

Release 2.1D John F. Collins, Biocomputing Research Unit. Copyright (c) 1993, 1994, 1995 University of Edinburgh, U.K. Distribution rights by Intelligenetics, Inc.

MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Wed Aug 20 09:52:47 1997; MasPar time 19.04 Seconds 576.613 Million cell updates/sec

Tabular output not generated.

Description: Perfect Score: Sequence: >US-08-469-637A-2 (22-61) from US08469637A.pep (2 of 2) 2861 (2 ETPPPKYLHYDEETSHQLLC.....QKLFLEMIGNQVQSVKISCL 380

Scoring table: РАМ 150 Gap 11

Searched: 91006 seqs, 28888923 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

1:ann1 2:ann2 3:ann3 4:ann4 5:unann1 6:unann2 7:unann3 8:unann4 9:unann5 10:unann6 11:unann7 12:unann8 13:unann9 14:unann10 15:unenc 16:unrev

Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Mean 46.240; Variance 103.115; scale 0.448

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ALIGNMENTS

#cross-references MUID:91370690 #accession A48416 ##status preliminary ##molecule_type mRNA; protein ##residues 23-461 ##label DEM ##cross-references NCBIN:63368; NCBIP:63371	#authors Dembic, 2.; Loetscher, H. Gentz, R.; Brockhaus, #journal Cytokine (1990) 2-331-237 #title Two human TNF receptors h distinct intracellular,	#accession A36475 ##status preliminary ##molecule_type mRNA ##residues 1-195,'R',197-461 ##cross-references GB:M38549 REFERENCE A48416	rs Ko al Pr A	A receptor family oi eferences MUID: 90 n A35356 tus prelir ecule_type mRNA idues 1-461 idues GB ss-references GB a36475	NATE_NAMES ISM SIONS SHORE uthors ournal	
n el DEM 68; NCBIP:63371	Dembic, 2.; Loetscher, H.; Gubler, U.; Pan, Y.C.; Lahm, H.W.; Gentz, R.; Brockhaus, M.; Lesslauer, W. Cytokine (1990) 2:231-237 Two human TNF receptors have similar extracellular, but distinct intracellular, domain sequences.	7-461 ##label KOH	Kohno, T.; Brewer, M.T.; Baker, S.L.; Schwartz, P.E.; King, M.W.; Hale, K.K.; Squires, C.H.; Thompson, R.C.; Vannice, J.L. Proc. Natl. Acad. Sci. U.S.A. (1990) 87:8331-8335 A second tumor necrosis factor receptor gene product can shed a naturally occurring tumor necrosis factor inhibitor. Ges MUID:91045991	ror tumor necrosis factor defines an unusual (cellular and viral proteins.) 260639 ninary ##label SMI	p-1990 #text_c p-1990 #text_c 566; B35010; I3 .; Solam, L.; B nan, D.; Goodwi	A35356 #type complete tumor necrosis factor receptor type 2 precursor - human

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FEATURE
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##cross-references GB:M35857
REFERENCE A23666
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Query Match 13.9%;
Best Local Similarity 43.8%;
Matches 63; Conservative
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78-119
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#title Complementary DNA cloning of a receptor for tumor necrosis
factor and demonstration of a shed form of the receptor.
#cross-references MUID:90349572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #authors Kuhnert, P.; Kemper, O.; Wallach, D.

#journal Gene (1994) 150:381-386

#title Cloning, sequencing and partial functional characterization

#coss-references MID:95121934
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Lesslauer, W.; Brockhaus, M.
#journal J. Biol. Chem. (1990) 265:20131-20138
#title Purification and partial amino acid sequence analysis of two distinct tumor necrosis factor receptors from HL60 cells.
**Cross-references.MUID:91058048
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Score 398; DB 6;
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19; Mismatches 55
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Best Local Similarity 41.5%;
                                                                                                  #authors Lewis, M.; Tartaglia, L.A.; Lee, A.; Bennett, G.L.; Rice G.C.; Wong, G.H.W.; Chen, E.Y.; Goeddel, D.V.
#journal Proc. Natl. Acad. Sci. U.S.A. (1991) 88:2830-2834
#title necrosis factor receptors demonstrate one receptor is species specific.
#cross-references MUID:91187885
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##molecule_type mRNA
##residues 1-459 ##label RES
##cross-references GB:M60469
                                                             ##molecule_type mRNA
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Mamm. Genome (1994) 5:726-727
Allelic variation of the type 2 tumor necrosis factor
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                              #authors
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##cross-references EMBL:X60592
RMCE A60771
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FICATION #superfamily tumor necrosis factor receptor type
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B-cell activation protein CD40 precursor - human
B-cell surface antigen Bp50
#formal_name Homo sapiens #common_name man
03-Jun-1993 *sequence_revision 03-Feb-1994 *text_change
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Braesch-Andersen, S.; Paulie,
Aspenstroem, P.; Perlmann, P
J. Immunol. (1989) 142:562-567
                                                                                                                                                                            Stamenkovic, I.; Clark, E.A.; Seed, EMBO J. (1989) 8:1403-1410 A B-lymphocyte activation molecule
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Molecular cloning and expression of the type 1 and type 2
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##residues 21-50 ##
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##experimental_source BALB/c, liver
##axperimental_source BALB/c, liver
##note sequence extracted from NC
##note standar-weight
Y #length 289 #molecular-weight
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##residues 1-289 ##label GRI
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taesdtvctckegghctskdceacaghtpcipgfgymematettdtvchpcpvgffsngs 155
                                                              CDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDEC-LY--CSPVCKELQYVKQEC 97
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56; Conservation
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Similarity 38.8%;
59; Conservative
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J. Immunol. (1992) 149:3921-3926
Genomic structure and chromosomal mapping
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B cell-associated surface molecule CD40 - mouse
#formal_name Mus musculus #common_name house mouse
18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B-cell; glycoprotein; phosphoprotein; transmembrane protein
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#product B cell activation protein CD40 *status
experimental *label MAT\
#domain extracellular *status predicted *label EXT\
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nucleic acid
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Pred. No. 1.19e-30;
21; Mismatches 67;
                                                                                                                                               Score 294; DB 14;
Pred. No. 3.73e-29;
20; Mismatches 65
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66,181,205,238
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J. Immunol. (1992) 148:620-626
#title Differential increase of an alternatively polyadenylated
species of murine CD40 upon B lymphocyte activation.
"cross-references MUID:92105763
                                                                                                                                                                                                                                        #cross-references MUID:91335768
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##cross-references GB:M37976
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##cross-references NCBIN:75206; NCBIP:75207
##note sequence extracted from NCBI backbone
##note sequence extracted from NCBI backbone
                                                                                                                                                                                                   ##molecule_type DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          taesdtvctckegqhctskdceacaqhtpclpgfgvmematettdtvchpcpvgffsnqs 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDEC-LY--CSPVCKELQYVKQEC
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Similarity 38.8%;
59; Conservative
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                                                                                                                                            #superfamily myxoma virus T2 protein; NGF
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#formal_name Mus musculus #common_name house mouse
18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change
                                                                                                         glycoprotein
                                                                                                                                                                                                                                                         Opton, C.; Macen, J.L.; Schreiber, M.; Mcfadden, G. Virology (1991) 184:370-382 Myxoma virus expresses a secreted protein with homology the tumor necrosis factor receptor gene family that contributes to viral virulence.
                                                                                                                                                                                                                                                                                                                                                                                                        T2 protein - myxoma virus (strain Lausanne)
#formal_name myxoma virus
31-Dec-1992 #sequence_revision 31-Dec-1992 #text_change
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             #domain NGF receptor repeat homology #label
#domain NGF receptor repeat homology #label
#binding_site carbohydrate (Asn) (covalent)
predicted
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#molecular-weight 35208
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#checksum 9255
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Best Local Similarity 33.8%;
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                              #journal Genomics (1993) 16:214-218
#title Construction and evaluation of a
#transcribed sequences derived f
#cross-references MUID:93252381
                                                                                                                             #authors
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                  #accession
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 ##status
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                                                                                                                                                                                                                                                                                                                                                                                                    HNRVCECKEGRY - - L - - EIE - - FCLKHRSCPPGFGVVQAGTPERNTVCKRCPDGFFSNET
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 h 9.1%;
Similarity 30.5%;
51; Conservative
                                                                                                                                                                                               154182 #type complete
tumor necrosis factor receptor 2-related protein - human
#formal_name Homo sapiens #common_name man
24-May-1996 #sequence_revision 24-May-1996 #text_change
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#length 325
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Tumorigenic poxyituses; genomic orgoin the telomeric region of the Sh
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T2 protein - rabbit fibroma virus
#formal_name rabbit fibroma virus, Shope fibroma virus
30.sep-1993 #sequence_revision 30-Sep-1993 #text_change
                    I54182
                                                                                                                           Baens, M.; Chaffanet, M.; Cassiman,
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preliminary; translated
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NGF receptor repeat homology #label NG3
#molecular-weight 35132 #checksum 4629
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Pred. No. 4.86e-25;
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 from
                                                 hncDNA library of human 12p from a somatic cell hybrid.
 GB/EMBL/DDBJ
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                                                                                                                           J.J.; Van
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##status Pre--
##molecule_type DNA
1-349 ##label BLI
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##residues
1-435 ##label RES
##cross-references GB:L04270; NII:g339761; CDS_PID:g339762
##cross-references GB:L04270; NII:g339761; CDS_PID:g339762
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Y #length 138 #checks
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Local Similarity 35.4%;
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Similarity 32.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Shchelkunov, S.N.; Blinov, V.M.; Sandakhchiev, I FEBS Lett. (1993) 319:80-83 Genes of variola and vaccinia viruses necessary the host protective mechanisms.
                                                              D36858
                                                                                           Blinov, V.M. submitted to
                                                                                                                                            D36858; S46888; S35987
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gene G4R protein - variola virus (fragment)
#formal_name Variola virus
22_Nov-1993 #sequence_revision 22-Nov-1993 #text_change
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1-138 ##label_SHC
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                                                                                            GenBank, November
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Pred. No. 1.41e-23;
23; Mismatches 75; Indels 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19; Mismatches 58;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 230; DB 16;
Pred. No. 8.98e-19;
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Best Local Similarity 35.4%;
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                                                                                                                                                                                                                                                                                                                                                                                                              #journal Mol. Immunol. (1993) 30:165-176
#title Genomic organization and promoter function
tumor necrosis factor receptor beta gene.
#cross-references MUID:93156721
#accession 157826
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##experimental_source strain India-1967, ssp. major, isolate
                                                                                                                                                                                                                                                                                                                              ##residues 1-454 ##label RES
##cross-references GB:M76656; NID:g202100; CDS_PID:g202102
                                                                                                                                                                                                                                                                                                                                                                 ##molecule_type DNA
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##cross-references EMBL:X67117
##experimental_source strain India-1967, isolate Ind3
FICATION #superfamily NGF receptor repeat homology
                       ##molecule_type DNA
  90
                                                                                 31
                                                                                                                  49 yvhsknnsicctkchkgtylvsdcpspgrdtvcrecekgtftasqnylrqclscktcrke 108
                                                                                                                                                                                  V Match 7.7%;
Local Similarity 33.1%;
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                                                                               YDEETSHQLLCDKCPPGTYLKQHCTAK-WKTVCAPCPDHYYTDSWHTSDECLYCSPVCKE
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LQYVK-QECNRTHNRVCECKEG---RYL-EIEF-CLKHRSCPPGFGVVQAGTPERNTVCK
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Shchelkunov, S.N.; Sandakhchiev, L.S.
submitted to the EMBL Data Library, April 1992
Nucleotide sequence analysis of the region of YakhoI F O H P Q genome fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kolykhalov, A.A.; Blinov, V.M.; Gytorov, V.V.; Pozdnyakov, S.G.; Chizhikov, V.E.; Frolov, I.V.; Totmenin, A.V.;
                                                                                                                                                                                                                                                                    gene name TNFR-2
                                                                                                                                                                                                                                                                                       13/3; 65/1; 108/1; 158/1; 184/2; 210/1; 248/1; 257/3;
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tumor necrosis factor receptor - mouse
formal_name Mus musculus #common_name house mouse
02-Aug-1996 #sequence_revision 02-Aug-1996 #text_cl
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#domain NGF receptor repeat homology #label NG3
#length 349 #molecular-weight 38189 #checksum 2016
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                                                                                                                                                             Score 221; DB 14; Pred. No. 2.33e-17; 21; Mismatches 65;
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Pred. No. 8.98e-19;
19; Mismatches 58
                                                                                                                                                                                                      Length 454;
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#title
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                                                                                                                                                                                                                                                                                           #journal
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                                                                                                                                                                                                               #journal Immunogenetics (1994) 39:450-451
**Hitle Nucleotide sequence of the TNF t
**endothelioma cell line.
**ecross-references_MUID:94245292
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##cross-references EMBL:X57796
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                                        ##residues 1-454 ##label RES
##cross-references GB.L26349; NID:9430732; CDS_PID:9430733
#This protein is one of two distantly related receptors for TNF-alpha (cachectin) and TNF-beta (lymphotoxin)
                                                                                                                                           ##molecule_type mRNA
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##residues 1-454 ##label LEW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ##cross-references EMBL:X59238
                                                                                                                                                                      ##status
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Barrett, K.; Taylor-Fishwick, D.A.; Cope, A.P.; Kissonerghis, A.M.; Gray, P.W.; Feldmann, M.; Foxwell, B.M.J.
Eur. J. Immunol. (1991) 21:1649-1656
Cloning, expression and cross-linking analysis of the murine p55 tumor necrosis factor receptor.
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tumor necrosis factor receptor type 1 precursor - mouse
tumor necrosis factor receptor, 55K
#tormal_name Mus musculus #common_name house mouse
30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change
18-Oct-1996
                      #superfamily tumor necrosis factor receptor type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rothe, J.G.; Brockhaus, M.; Gentz, R.; Lesslauer, W. Immunogenetics (1991) 34:338-340
Molecular cioning and expression of the mouse Tnf receptor
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                                                                                                                                                                                                                                                                                                                                                                                                                                           S19021
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repeat homology
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Best Local S
Matches 4
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44-82
84-126
127-167
168-204
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235-461
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30-201
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##residues 1-46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ##cross-references GB:M63122
This protein is one of two known receptors for both TNF-alpha (cachectin) and TNF-beta (lymphotoxin).
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Similarity 33.1%;
48; Conservative
                                                                                                                                                                                                                                                                                                                                                                                         #superfamily tumor necrosis factor receptor type 1; NGF
    receptor repeat homology
duplication; glycoprotein; receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Himmler, A.; Maurer-Fogy, I.; Ki
pfisenmaler, K.; Lantz, M.; OJ
Stratowa, C.; Adolf, G.R.
DNA Cell Biol. (1990) 9:705-715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Molecular cloning and expression of human and rat tumor necrosis factor receptor chain (p60) and its soluble derivative, tumor necrosis factor-binding protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GQRTT1 #type complete
tumor necrosis factor receptor type 1 precursor - rat
tumor necrosis factor binding protein 1 (TNF blocking fa
#formal_name Rattus norvegicus #common_name Norway rat
30-Jun-1992 #sequence_revision 07-Oct-1994 #text_change
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#length
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                                                             #domain extracellular #status predicted #label EXT\
#product tumor necrosis factor binding protein #status
predicted #label TBP\
#domain NGF receptor repeat homology #label NG1\
#domain NGF receptor repeat homology #label NG2\
#domain NGF receptor repeat homology #label NG3\
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#domain NGF receptor repeat homology #label NG3\
#domain NGF receptor repeat homology #label NG4\
#domain NGF receptor repeat homology #label NG4\
#domain transmembrane #status predicted #label MEM\
#domain intracellular #status predicted #label NT1
#th 454 #molecular-weight 50129 #checksum 4839
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#product tumor necrosis factor receptor type 1 #status
predicted #label MAT\
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Pred. No. 2.33e-17; 
21; Mismatches 65; Indels
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Olsson, I
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##experimental_source embryonic chick brain
NCE A60504
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Local Similarity 33.8%;
nes 49; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The cysteine-rich region of the extracellular domain may form part or all of the NGF-binding site.

This protein is thought to form a high-affinity receptor when it associates with the 140K trk proto-oncogene, which contains an intracellular tyrosine kinase domain.

**This protein in the receptor intracellular tyrosine kinase domain.**

**This protein is thought to form a high receptor which contains an intracellular tyrosine kinase domain.**

**This protein is thought to form a high-affinity receptor when it is thought to form a high-affinity receptor and intracellular tyrosine kinase domain.**

**This protein is thought to form a high-affinity receptor when it is thought to form a high-affinity receptor when it is thought to form a high-affinity receptor when it is thought to form a high-affinity receptor when it is thought to form a high-affinity receptor when it is thought to form a high-affinity receptor which contains an intracellular tyrosine kinase domain.**
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nerve growth factor receptor, low affinity - chicken
NGF receptor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Heuer, J.G.; Fatemie-Nainie, S.; Wheeler, E.F.; Bothwell, Dev. Biol. (1990) 137:287-304 Structure and developmental expression of the chicken NGF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Large, T.H.; Weskamp, G.; Helder, J.C.; Radeke, M.J.; Misko, T.P.; Shooter, E.M.; Reichardt, L.F.

Neuron (1989) 2:1123-1134

Structure and developmental expression of the nerve growth
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07-Jun-1990 #sequence_revision 07-Jun-1990 #text_change
05_Apr-1995
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plication; glycoprotein; heterodimer; monomer;
phosphoprotein; receptor; transmembrane protein
                                                                                                                         #domain extracellular #status predicted #label EXT\
#region cysteine-rich\
#region cysteine-rich\
#comain NGF receptor repeat homology #label NG2\
#domain NGF receptor repeat homology #label NG3\
#domain NGF receptor repeat homology #label NG3\
#domain NGF receptor repeat homology #label NG4\
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                                                                                                                                                                                                                                                                                                                          #domain signal sequence #status predicted #label SIG\
#product nerve growth factor receptor #status predicted
#label MAT\
idomain transmembrane #status predicted #label MEM\
idomain intracellular #status predicted #label INT\
ibinding_site carbohydrate (Asn) (covalent) #status
                                                                                                  serine/threonine-rich/
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Pred. No. 3.34e-17;
22; Mismatches 63; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels 11;
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                                                                                                                                                                                                                                                                                                                                                                               Query Match 7.5%; Score 215; DB 6; Length 416; Best Local Similarity 30.4%; Pred. No. 2.01e-16; Matches 45; Conservative 27; Mismatches 70; Indels
                                                                                              158
                                                                                                                                           154 dpclpcticeenevmvke-ctatsdaec 180
                                                                                                                                                                                       100 THNRVCECKEGRYL-EIE-FCLKHRSCPPGFGVVQAGTPERNTVCKRCPDGFFSNETSSK 157
                                                                                                                                                                                                                                    94 sddavcrcaygyfqdelsgsckecsicevgfglmfpcrdsgdtvceecpegtfsdeanfv 153
                                                                                                                                                                                                                                                                                        41 CDKCPPGTYLKQHCTAKWKTVCAPCPDHY-YIDSWHTSDECLYCSPVCKELQYVKQECNR 99
                                                                                                                                                                                                                                                                                                              36 ckacnlgegvvqpcgvn-qtvcepcldsvtysdtvsatepckpctq-cvglhsmsapcve 93
                                                                                              APCRKHTNCSVFGLLLTQKGNATHDNIC 185
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